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Datasheet for ABIN2774879
anti-MCM3 antibody (C-Term)

3 Images

Overview

Quantity:	100 µL
Target:	MCM3
Binding Specificity:	C-Term
Reactivity:	Human, Mouse, Rat, Horse, Cow, Guinea Pig, Rabbit, Dog, Saccharomyces cerevisiae
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MCM3 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the C terminal region of human MCM3
Sequence:	YAYFKKLVLEK EKRRKKRSED ESETEDEEEK SQEDQEQKRK RRKTRQPDAK
Predicted Reactivity:	Cow: 100%, Dog: 93%, Guinea Pig: 100%, Horse: 93%, Human: 100%, Mouse: 93%, Rabbit: 100%, Rat: 100%, Yeast: 82%
Characteristics:	This is a rabbit polyclonal antibody against MCM3. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

Target Details

Target:	MCM3
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Target Details

Alternative Name: MCM3 ([MCM3 Products](#))

Background: MCM3 is one of the highly conserved mini-chromosome maintenance proteins (MCM) that are involved in the initiation of eukaryotic genome replication. The hexameric protein complex formed by MCM proteins is a key component of the pre-replication complex (pre_RC) and may be involved in the formation of replication forks and in the recruitment of other DNA replication related proteins. This protein is a subunit of the protein complex that consists of MCM2-7. It has been shown to interact directly with MCM5/CDC46. This protein also interacts with, and thus is acetylated by MCM3AP, a chromatin-associated acetyltransferase. The acetylation of this protein inhibits the initiation of DNA replication and cell cycle progression. The protein encoded by this gene is one of the highly conserved mini-chromosome maintenance proteins (MCM) that are involved in the initiation of eukaryotic genome replication. The hexameric protein complex formed by MCM proteins is a key component of the pre-replication complex (pre_RC) and may be involved in the formation of replication forks and in the recruitment of other DNA replication related proteins. This protein is a subunit of the protein complex that consists of MCM2-7. It has been shown to interact directly with MCM5/CDC46. This protein also interacts with, and thus is acetylated by MCM3AP, a chromatin-associated acetyltransferase. The acetylation of this protein inhibits the initiation of DNA replication and cell cycle progression. The protein encoded by this gene is one of the highly conserved mini-chromosome maintenance proteins (MCM) that are involved in the initiation of eukaryotic genome replication. The hexameric protein complex formed by MCM proteins is a key component of the pre-replication complex (pre_RC) and may be involved in the formation of replication forks and in the recruitment of other DNA replication related proteins. This protein is a subunit of the protein complex that consists of MCM2-7. It has been shown to interact directly with MCM5/CDC46. This protein also interacts with, and thus is acetylated by MCM3AP, a chromatin-associated acetyltransferase. The acetylation of this protein inhibits the initiation of DNA replication and cell cycle progression. Publication Note: This RefSeq record includes a subset of the publications that are available for this gene. Please see the Entrez Gene record to access additional publications.

Alias Symbols: HCC5, MGC1157, P1-MCM3, P1.h, RLF8

Protein Interaction Partner: SUMO2, MCMBP, UBC, KEAP1, MDM2, MCM6, MCM5, ACTBL2, MGEA5, CAP1, SAE1, HSP90B1, TPM3, HSP90AA1, FKBP5, FKBP4, MIB1, YWHAQ, UBD, TCEA1, MCM10, ORC5, ORC4, MCM2, ITGA4, FN1, CSNK2A1, CDK2, CDC6, CDC5L, PNKP, CDC7, VCAM1, NOTCH1, POLD1, POLA1, MCM7, PIPSL, P

Protein Size: 808

Molecular Weight: 91 kDa

Target Details

Gene ID:	4172
NCBI Accession:	NM_002388 , NP_002379
Pathways:	DNA Damage Repair , Mitotic G1-G1/S Phases , DNA Replication , Chromatin Binding , Synthesis of DNA

Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 808 AA
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.



Western Blotting

Image 1. WB Suggested Anti-MCM3

Antibody Titration: 0.2-1 $\mu\text{g}/\text{mL}$ ELISA Titer: 1:12500

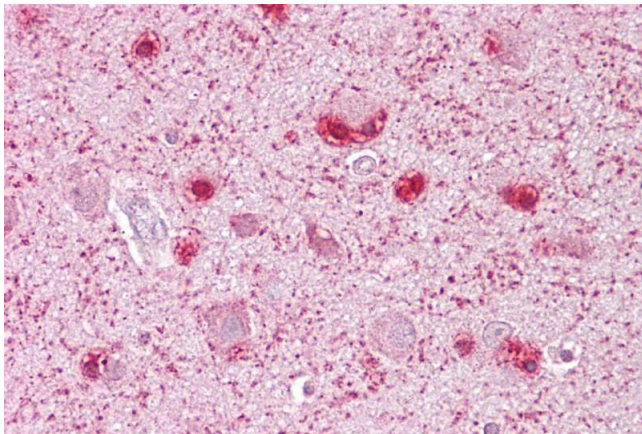
Positive Control: 21_B cell lysate

MCM3 is supported by BioGPS gene expression data to be expressed in 721_B

Western Blotting

Image 2. WB Suggested Anti-MCM3 Antibody Titration: 0.2-

1 $\mu\text{g}/\text{ml}$ ELISA Titer: 1:312500 Positive Control: 721_B cell lysate MCM3 is supported by BioGPS gene expression data to be expressed in 721_B



Immunohistochemistry

Image 3. Immunohistochemistry with Brain, cortex tissue at an antibody concentration of 5 $\mu\text{g}/\text{ml}$ using anti-MCM3 antibody (ARP36644_P050)